

AFFINITY SELECTED SIGNATURE PEPTIDES FOR PROTEIN IDENTIFICATION AND QUANTIFICATION

Abstract

A method for protein identification in complex mixtures that utilizes affinity selection of constituent proteolytic peptide fragments unique to a protein analyte. These "signature peptides" function as analytical surrogates. Mass spectrometric analysis of the proteolyzed mixture permits identification of a protein in a complex sample without purifying the protein or obtaining its composite peptide signature.

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